Storm Data and Unusual Weather Phenomena - February 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details

WISCONSIN, Southeast

(WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH

	02/01/12 22:30 CST	0	Dense Fog
	02/02/12 15:00 CST	0	

Calm winds, clear skies and abundant low-level moisture trapped under an inversion allowed the formation of dense fog with visibilities of 1/4 mile or less over a good portion of South-Central and Southeast Wisconsin west of a line from Waupun to Burlington. The dense fog developed during the late evening hours of February 1sr over South-Central Wisconsin, but was delayed over the Southeast until the early morning hours of February 2nd.

(WI-Z062) IOWA, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN

	02/02/12 19:00 CST	0	Dense Fog
	02/03/12 13:00 CST	0	

Light winds, initially clear skies and abundant low-level moisture led to good radiational cooling conditions and the development of dense fog with visibilities of 1/4 mile or less over southwest portions of South-Central Wisconsin. The dense fog developed during the late evening hours of February 2nd and lingered into the late morning to early afternoon hours of February 3rd. Drier air to the north and east, as well as increased mixing just above a low-level inversion prevented a more widespread expansion of the dense fog.

(WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z069) ROCK, (WI-Z070) WALWORTH

	02/15/12 22:00 CST	0	Dense Fog
	02/16/12 02:00 CST	0	

Light winds and abundant low-level moisture led to the development of dense fog with visibilities of 1/4 mile or less over portions of Southeast Wisconsin east of a line from Ripon to Beaver Dam to Lake Mills, to Janesville. The dense fog developed during the late evening hours of February 15th and lasted until the early overnight hours of the 16th. Weak low-level warm air advection strengthened an inversion that trapped the low-level moisture.

(WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

	02/23/12 18:00 CST	0	Winter Weather
	02/24/12 08:00 CST	0	

Heavy, wet snow accumulated to 3 to 6 inches over much of southern Wisconsin as surface low pressure tracked across Illinois. Strong warm-air advection led to strong frontogenetic forcing over the region, with lift enhanced by differential positive vorticity advection associated with a 500-mb short-wave trough that crossed the region. These features produced a steady, long-term snowfall that began in the early evening of the 23rd and lasted until the early morning hours of the 24th. A few locations (West Bend to Mt. Mary College in Milwaukee and from Burlington to the city of Racine) received between 7 to 8 inches of accumulation, but these higher amounts were isolated and had a low impact on travel. Therefore, this event was not documented as a winter storm.

(WI-Z052) SHEBOYGAN

	02/26/12 12:00 CST	1K	Strong Wind (MAX 39 kt)
	02/26/12 14:00 CST	0	

Gusty south to southeast winds affected the eastern counties of Southeast Wisconsin around the mid-day hours of February 26th. The gusty winds were produced in a tightening pressure gradient ahead of strong low pressure that tracked across central Minnesota to the Upper Peninsula of Michigan. The strong winds would have occurred over a longer period of time, but the start was delayed until a low-level inversion over a snow cover across the area mixed out with daytime heating. The Sheboygan C-MAN recorded sustained winds of 32 to 39 mph (28 knots to 32 knots), with a peak gust of 45 mph (39 knots), while the Sheboygan airport reported a peak gust of 43 mph. Wind gusts over the remainder of southeast Wisconsin were in the 35 to 43 mph range, which was below strong wind criteria.

Printed on: 06/13/2012